EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"09312131"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L2	1	"6636886".pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L3	12	("5129082" | "5187787" | "5257369" | "5557798" | "5732219" | "5737592" | "5745754" | "5768505" | "5905979" | "6061686" | "6341339" | "6430659").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L4	3	(distribut$3 dowload$3 transferr$3) near4 object same (relational near2 condition)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L5	9	("5187787" | "5257369" | "5307413" | "5347633" | "5557798" | "5826025" | "5974451" | "6070187" | "6226642").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L6	18849	707/???.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L7	1445	L6 and (modif$4 near4 object)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L8	0	L7 and (publish$3 with subcribe)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L9	442	L7 and (publish$3)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L10	6151458	@ad<="20030101"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L11	3	L9 and "l0"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:23

L12	318	L9 and L10	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L13	56	L12 and 709/???.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L14	0	"09920788"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L15	6	("6539381" "6226650" "6073141" "5870765" "6892210" "5926816").pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L16	11030	synchroniz$6 near4 object	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L17	1551	707/201.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L18	166	L16 and L17	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L19	127	L18 and L10	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L20	125	L19 not L15	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L21	1	"6324587".pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L22	1551	707/201.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L23	0	publish$1scubscribe and L22	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17

L24	0	publish$1scubscribe.ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L25	107	publish$1subscribe.ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L26	0	L22 and L25	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L27	1192	publish$1subscribe	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L28	15	L22 and L27	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L29	5	("6792436" "6272545" "6128661" "6125369" "5758150").pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L30	5	NASIB near2 system	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L31	17	("5787418" | "5835910" | "5907847" | "5944783" | "6088698" | "6112024" | "6119122" | "6144968" | "6154776" | "6205447" | "6236989" | "6249291" | "6279005" | "6279016" | "6418445" | "6457017" | "6567846").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L32	12	("5129082" | "5187787" | "5257369" | "5557798" | "5732219" | "5737592" | "5745754" | "5768505" | "5905979" | "6061686" | "6341339" | "6430659").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L33	1904	(object$1oriented) with (relational near2 database)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L34	19	L33 and L27	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17

L35	18849	707/???.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L36	1445	L35 and (modif$4 near4 object)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L37	0	L36 and (publish$3 with subcribe)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L38	6151458	@ad<="20030101"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L39	442	L36 and (publish$3)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L40	318	L39 and L38	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L41	11030	synchroniz$6 near4 object	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L42	1551	707/201.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L43	166	L41 and L42	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L44	127	L43 and L38	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L45	3	L39 and "I0"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L46	56	L40 and 709/???.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17

L47	987	719/310.CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17.
L48	1904	(object$1oriented) with (relational near2 database)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L49	9	L48 and L47	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L50	0	"09920788"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L51	1551	707/201.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L52	0	publish$1scubscribe and L51	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L53	3	(distribut$3 dowload$3 transferr$3) near4 object same (relational near2 condition)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L54	1	"09312131"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L55	1	"6636886".pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L56	0	publish$1scubscribe.ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L57	107	publish$1subscribe.ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L58	0	L51 and L57	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17

EAST Search History

L59	1192	publish$1subscribe	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L60	1	"6324587".pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L61	12	("5129082" | "5187787" | "5257369" | "5557798" | "5732219" | "5737592" | "5745754" | "5768505" | "5905979" | "6061686" | "6341339" | "6430659").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
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L63	6	("6539381" "6226650" "6073141" "5870765" "6892210" "5926816").pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L64	5	("6792436" "6272545" "6128661" "6125369" "5758150").pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L65	5	NASIB near2 system	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L66	12	("5129082" | "5187787" | "5257369" | "5557798" | "5732219" | "5737592" | "5745754" | "5768505" | "5905979" | "6061686" | "6341339" | "6430659").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L67	15	L51 and L59	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L68	17	("5787418" | "5835910" | "5907847" | "5944783" | "6088698" | "6112024" | "6119122" | "6144968" | "6154776" | "6205447" | "6236989" | "6249291" | "6279005" | "6279016" | "6418445" | "6457017" | "6567846").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17
L69	19	L48 and L59	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:17

L70	125	L44 not L63	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17
L71	4	L47 and L36	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/11 09:17

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#2   (((publish and subscribe and object<in>metadata))<AND>(publish and subscribe and object<in>metadata) and synchronization)

#3   (((((publish and subscribe and object<in>metadata))<and>(publish and subscribe and object<in>metadata) and synchronization))<AND>(((publish and subscribe and object<in>metadata))<and>(publish and subscribe and object<in>metadata) and synchronization) and relational criteria)

#4   (((((publish and subscribe and object<in>metadata))<and>(publish and subscribe and object<in>metadata) and synchronization))<and>(((publish and subscribe and object<in>metadata))<and>(publish and subscribe and object<in>metadata) and synchronization) and relational)

#5   (((((publish and subscribe and object<in>metadata))<and>(publish and subscribe and object<in>metadata) and synchronization))<and>(((publish and subscribe and object<in>metadata))<and>(publish and subscribe and object<in>metadata) and synchronization) and modified objects)

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1 A publish/subscribe CORBA persistent state service prototype
C. Liebig, M. Cilia, M. Betz, A. Buchmann
April 2000 **IFIP/ACM International Conference on Distributed systems platforms Middleware '00**
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(283.92 KB)   Additional Information: full citation, abstract, references, citings

An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information brokers between data sources and CORBA clients. In this paper we present a prototype implementation of the PSS that exploits the reliable multicast capabilities of an existing middleware platform. This publish/subscribe architecture makes ...

2 Efficient matching for state-persistent publish/subscribe systems   ▬
Hubert Ka Yau Leung, Hans-Arno Jacobsen
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research CASCON '03**
Publisher: IBM Press
Full text available: 📄 pdf(341.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

Content-based publish/subscribe systems allow information dissemination and fine-grained information filtering in loosely coupled distributed systems. Stateless publish/subscribe systems send notifications to all subscribers whose subscriptions match an incoming publication. State-persistent publish/subscribe systems, a recently proposed model that stores the states of both publications and subscriptions, only send notifications upon state transitions. The information filtering process requires ...

3 On objects and events   ▬
Patrick Th. Eugster, Rachid Guerraoui, Christian Heide Damm
October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11
Publisher: ACM Press
Full text available: 📄 pdf(308.58 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents linguistic primitives for publish/subscribe programming using events and objects. We integrate our primitives into a strongly typed object-oriented language through four mechnisms: (1) serialization, (2) multiple subtyping, (3)closures, and (4) deferred code evaluation. We illustrate our primitives through Java, showing how we have overcome its respective lacks. A precompiler transforms statements based on our publish/subscribe primitives into calls to specifically generated ...

4   <u>Database issues for event-based middleware: Relational subscription middleware for Internet-scale publish-subscribe</u>

Yuhui Jin, Rob Strom

June 2003   **Proceedings of the 2nd international workshop on Distributed event-based systems DEBS '03**

Publisher: ACM Press

Full text available: <u>pdf(103.95 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We present a design of a distributed publish-subscribe system that extends the functionality of messaging middleware with "relational subscriptions", to support timely updates to state derived from published messages while preserving high throughput, scalability, and reliability.Critical to our design is our service guarantee of "eventual correctness". Eventual correctness is a weaker guarantee than the ACID properties of conventional databases, yet is useful enough to deliver state that is "jus ...

Keywords: continuous queries, event distribution systems, monotonicity, relational subscriptions

5   <u>Quality-constrained routing in publish/subscribe systems</u>

Bogumil Zieba, Marten van Sinderen, Maarten Wegdam

November 2005   **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**

Publisher: ACM Press

Full text available: <u>pdf(389.71 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Routing in publish/subscribe (pub/sub) features a communication model where messages are not given explicit destination addresses, but destinations are determined by matching the subscription declared by subscribers. For a dynamic computing environment with applications that have quality demands, this is not sufficient. Routing decision should, in such environments, not only depend on the subscription predicate, but should also take the quality-constraints of applications and characteristics of ...

Keywords: content-based, publish/subscribe, quality-constraints, quality-of-service, routing

6   <u>Publish/subscribe in a mobile environment</u>

Yongqiang Huang, Hector Garcia-Molina

November 2004   **Wireless Networks**, Volume 10 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: <u>pdf(302.60 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

A publish/subscribe system dynamically routes and delivers events from sources to interested users, and is an extremely useful communication service when it is not clear in advance who needs what information. In this paper we discuss how a publish/subscribe system can be extended to operate in a mobile environment, where events can be generated by moving sensors or users, and subscribers can request delivery at handheld and/or mobile devices. We describe how the publish/subscribe system itsel ...

Keywords: event systems, mobile networks, publish/subscribe, wireless ad-hoc networks

7 Prediction & verification: A case study on the automated verification of groupware protocols

Maurice H. ter Beek, Mieke Massink, Diego Latella, Stefania Gnesi, Alessandro Forghieri, Maurizio Sebastianis

May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(308.11 KB)   Additional Information: full citation, abstract, references, index terms
Publisher Site

We report on a fruitful combination of applying academic experience with formal modelling and verification techniques to an industrial case study. The goal of the case study was to investigate a priori, i.e. before implementation, the effects of adding a lightweight and easy-to-use publish/subscribe (event) notification service to thinkteam--an asynchronous and dispersed groupware system which was developed by think3. Researchers from the Formal Methods and Tools (FM&T) group of ISTI-CNR--with a ...

Keywords: groupware, model checking, publish/subscribe notification, thinkteam

8 High level architecture remote data filtering

William S. Murphy, Galen D. Aswegen

December 1998 **Proceedings of the 30th conference on Winter simulation WSC '98**

Publisher: IEEE Computer Society Press

Full text available: pdf(97.92 KB)   Additional Information: full citation, references, citings, index terms

9 Design and evaluation of a wide-area event notification service

Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf

August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

10 Security in middleware: Secure event types in content-based, multi-domain publish/subscribe systems

Lauri I. W. Pesonen, Jean Bacon

September 2005 **Proceedings of the 5th international workshop on Software engineering and middleware SEM '05**

Publisher: ACM Press

Full text available: 📄 pdf(464.70 KB)   Additional Information: full citation, abstract, references

Publish/subscribe research has so far been mostly focused on efficient event routing, event filtering, and composite event detection. The little research that has been published regarding security in publish/subscribe systems has been tentative at best. This paper presents a model for secure type names, and definitions for type-checked, content-based publish/subscribe systems. Our model provides a cryptographically verifiable binding between type names and type definitions. It also produces self ...

11 Modeling location-based services with subject spaces
Hubert Ka Yau Leung, Ioana Burcea, Hans-Amo Jacobsen
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research CASCON '03**
Publisher: IBM Press
Full text available: 📄 pdf(248.48 KB)   Additional Information: full citation, abstract, references, index terms

The advance in wireless networks and in positioning systems has led to the development of a new generation of mobile applications: location-based services (LBS). LBS offer highly personalized services to users of mobile devices such as telephones, pagers, and PDAs (mobile users) based on their locations, user profiles and context information. The publish/subscribe paradigm is an information dissemination model for loosely-coupled distributed applications, and is appropriate for the implementatio ...

12 Optimizing cell-size in grid-based DDM
Rassul Ayani, Farshad Moradi, Gary Tan
May 2000 **Proceedings of the fourteenth workshop on Parallel and distributed simulation PADS '00**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(740.28 KB)   Additional Information: full citation, abstract, references, citings, index terms

In a large-scale distributed simulation with thousands of dynamic objects, efficient communication of data among these objects is an important issue. The broadcasting mechanism specified by the Distributed Interactive Simulation (DIS) standards is not suitable for large scale distributed simulations. In the High Level Architecture (HLA) paradigm, the Runtime Infrastructure (RTI) provides a set of services, such as data distribution management (DDM) among ...

Keywords: HLA, data communication, data filtering, distributed simulation, group communication

13 Adapting optical-flow to measure object motion in reflectance and x-ray image sequences (abstract only)
Nancy Cornelius, Takeo Kanade
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(3.92 MB)   Additional Information: full citation, abstract

This paper adapts Horn and Schunck's work on optical flow to the problem of determining arbitrary motions of objects from 2-dimensional image sequences. The method allows for gradual changes in the way an object appears in the image sequence, and allows for flow discontinuities at object boundaries. We find velocity fields that give estimates of the velocities of objects in the image plane. These velocities are computed from a series of images using information about the spatial and temporal bri ...

14 Run-time performance management of the Siena publish/subscribe middleware

Mauro Caporuscio, Antinisca Di Marco, Paola Inverardi
July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**
Publisher: ACM Press
Full text available: .pdf(368.75 KB)   Additional Information: full citation, abstract, references

Recently, growing attention is focused on run-time management of Quality of Service (QoS) of complex software systems. In this context, self-adaptation of applications, based on runtime monitoring and dynamic reconfiguration, is considered a useful technique to manage/negotiate QoS. Several defined approaches to dynamic performance management propose the use of on-line model-based evaluation of the managed application in order to choose the new application configuration for improving the QoS. In ...

Keywords: dynamic reconfiguration, performance analysis, performance model reconfiguration

15 Exploiting IP multicast in content-based publish-subscribe systems
Lukasz Opyrchal, Mark Astley, Joshua Auerbach, Guruduth Banavar, Robert Strom, Daniel Sturman
April 2000 **IFIP/ACM International Conference on Distributed systems platforms Middleware '00**
Publisher: Springer-Verlag New York, Inc.
Full text available: .pdf(390.25 KB)   Additional Information: full citation, abstract, references, citings

Publish-subscribe systems are evolving toward using content-based subscription rather than subject-based subscription. A key problem in implementing such systems is that a straightforward mapping from matching sets to multicast groups produces a number of groups that rapidly grows beyond practical limits. This paper proposes a set of alternative algorithms for solving this problem, by: (1) using a smaller set of overbroad multicast groups, judiciously chosen to minimize imprecision; (2) issui ...

16 Invited workshop on distributed objects research, experiences and applications: Cross-domain service change notification via trader federation
Banjong Huongrat, Twittie Senivongse
June 2004 **Proceedings of the 2004 international symposium on Information and communication technologies ISICT '04**
Publisher: Trinity College Dublin
Full text available: .pdf(429.23 KB)   Additional Information: full citation, abstract, references

The nature of distribution and autonomy in an open environment makes it difficult to maintain a consistent view of service provision among distributed groups of clients. In the case that services are changed, their clients should be informed properly in order to reduce unexpected outcome of using the changed services. This paper presents an extension to our previous CORBA-based change notification system that can notify service changes of several kinds to subscribing clients in a single trader d ...

Keywords: CORBA notification service, federation contract, service changes

17 Paper session KM-1 (knowledge management): knowledge systems: Intelligent creation of notification events in information systems: concept, implementation and evaluation
Michael Guppenberger, Burkhard Freitag
October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**
Publisher: ACM Press

Full text available: [pdf(239.16 KB)]   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

An important feature of information systems is the ability to inform users about changes of the stored information. Therefore, systems have to 'know' what changes a user wants to be informed about. This is well known from the field of publish-/subscribe architectures. In this paper, we propose a solution for information system designers of how to extend their information model in a way that the notification mechanism can consider semantic knowledge when determining which parties to inform. Two d ...

Keywords: aspect oriented programming (AOP), database triggers, knowledge management, notification service, publish/subscribe

18   Supporting large-scale distributed simulation using HLA

Tainchi Lu, Chungnan Lee, Wenyang Hsia, Mingtang Lin

July 2000   **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: [pdf(239.58 KB)]   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This article describes the design of a Web-based environment to support large-scale distributed simulation using Java and IEEE standard P1516 high level architecture (HLA) framework and rules. Based on the run-time infrastructure (RTI) services within the HLA and Java application programmer's interfaces (APIs) of the RTI, the proposed HLA-based environment provides an architectural foundation to enhance interactivity, portability, and interoperability for Web-based simulations. In addition, ...

Keywords: data distribution management (DDM), distributed interactive simulation (DIS), high level architecture (HLA), modeling and simulation, networked virtual environment, run-time infrastructure (RTI)

19   Coordination models, languages and applications (CM): Multi-coordination of mobile agents: a model and a component-based architecture

Giancarlo Fortino, Wilma Russo

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

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Full text available: [pdf(395.27 KB)]   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper proposes a model along with a reference software architecture enabling multi-coordination between distributed and mobile software agents. Multi-coordination allows agents to choose among a variety of different coordination spaces and patterns which best fit their dynamic communication and synchronization needs. It can be fruitfully exploited by agents in heterogeneous and dynamic environments like the Internet where the mutable conditions of communications and computing usually affect ...

Keywords: component-based architecture, coordination model, events, middleware, mobile agents

20   Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

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